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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/510,378	02/22/2000	Maureen T. Cronin	18547-004131US	3064
33494	7590 06/02/2004		EXAMINER	
TOWNSEND AND TOWNSEND AND CREW LLP TWO EMBARCADERO CENTER 8TH FLOOR			MARSCHEL, ARDIN H	
			ART UNIT	PAPER NUMBER
SAN FRAN	CISCO, CA 94111-3834	1631		
			DATE MAILED: 06/02/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	09/510,378	CRONIN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Ardin Marschel	1631				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a within the statutory minimum of thi vill apply and will expire SIX (6) MO, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 10/30	0/03 and 2/23/04.					
2a)⊠ This action is FINAL . 2b)☐ This	·					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) 82-94 is/are pending in the application	٦.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>88 and 89</u> is/are allowed.	_					
6)⊠ Claim(s) <u>82-87 and 90-94</u> is/are rejected.						
7) Claim(s) is/are objected to.	• • • • • • • • • • • • • • • • • • • •					
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>30 October 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct						
11) The oath or declaration is objected to by the Ex	•					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	8 119(a)-(d) or (f)				
a) All b) Some * c) None of: 1. Certified copies of the priority documents		3 110(a) (a) o. (i).				
2. Certified copies of the priority documents	s have been received in A	Application No				
3. Copies of the certified copies of the prior	ity documents have beer	received in this National Stage				
application from the International Bureau	ı (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not	received.				
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) (s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Togothal Date Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Togothal Date Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)						
Paper No(s)/Mail Date	6) 🔲 Other:	·				

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DETAILED ACTION

Applicants' arguments, filed 10/30/03 and 2/23/04, have been fully considered but they are not deemed to be persuasive. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

VAGUENESS AND INDEFINITENESS

Claims 82-87 and 90-94 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 82 has been amended to indicate in part (a)(1) to require that the different probes of the first probe set are overlapping probes spanning the reference sequence. This causes a conflict with the remainder of said part (a)(1) which is directed to each probe in the set being exactly complementary to a subsequence of the reference sequence and also including only a single interrogation position. The spanning the reference sequence is reasonably interpreted as requiring that the probes in the probe set are longer than the reference sequence. Since the exact complementarity to the reference sequence is only directed to a subsequence without limitation that this exact complementarity exists, except for the single interrogation position, other non-complementary positions would be present in most probes of the first probe set when compared to the reference sequence. These other non-complementary positions will clearly affect hybridization occurrence to sample nucleic acids if the conditions are

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utilized that will discriminate based on as few as a single interrogation position as required in part (b) of claim 82. Thus, it is confusing and conflicting to include apparently so many interrogation positions beyond the single position to for probes to span the reference sequence but only be broadly exactly complementary to any subsequence vs. the single interrogation position. Clarification of this conflicting reference sequence complementarity, non-complementarity, and "single" interrogation position set of claim limitations via clearer claim wording is requested. Claim 85 has also been amended to indicate a single interrogation position but similar to claim 82 above broadly limited only to being exactly complementary to a subsequence of the reference sequence regarding the first probe set. Also claim 85 conflicts in having a single interrogation position in the first probe set in part (a)(1) vs. the last three lines of part (a) in the wherein clause where the probes contain three interrogation positions. Claim 90 also contains the above unclarity. Claims which depend directly or indirectly from claims 82, 85, or 90 also contain the above unclarity due to their dependence. This rejection is necessitated by amendment.

Claims 88 and 89 are allowed.

Applicants' amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicants are reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the Central PTO Fax Center. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993)(See 37 CFR § 1.6(d)). The Central PTO Fax Center number is (703) 872-9306.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ardin Marschel, Ph.D., whose telephone number is (571) 272-0718. The examiner can normally be reached on Monday-Friday from 8 A.M. to 4 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward, Ph.D., can be reached on (571) 272-0722.

Any inquiry of a general nature or relating to the status of this application should be directed to Legal Instrument Examiner, Tina Plunkett, whose telephone number is (571) 272-0549.

May 28, 2004

Ardin 1. Marsh 5/28/04 ARDIN H. MARSCHEL PRIMARY EXAMINER